

# *EPA's New Strategic Plan*



10th Annual Environmental  
Essentials Workshop

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## *Scope*

- National Goals in New Strategic Plan
- Goal 5 Description
- P2 Strategic Targets For Government and Industry
- Green and Clean Indexes in P2 Targets

# *EPA's Strategic Goals*



- Clean Air and Global Climate Change
- Clean and Safe Water
- Land Preservation and Restoration
- Healthy Communities and Ecosystems
- Compliance and Environmental Stewardship

# *Old Strategic Goals*

- Clean Air
- Safe Food
- Preventing Pollution and Reducing Risk in Communities, Home, Workplace and Ecosystems
- Better Waste Management, Restoration of Contaminated Waste Site, and Emergency Response.
- Reduction of Global and Cross-Border Environmental Risks
- Quality Environmental Information
- Sound Science, Improved Understanding of Environmental Risk and Greater Innovation to Address Environmental Problems
- A Credible Deterrent to Pollution and Greater Compliance with the Law
- Effective Management
- Clean and Safe Water

# *Cross Goal Strategies in Plan*

- **Pollution prevention** (Included in Reg 4 Strategy)
- Partnership                      Information
- Human Capital                  Innovation
- Science                          Homeland Security
- Economic and Policy Analysis

# *Goal 5 Objectives*




- Improve Compliance
  - Compliance Assistance
  - Compliance Incentives
  - Monitoring and Enforcement
- Improve Performance through P2 and Innovation
- Build Tribal Capacity
- Enhance Science and Research

## *Goal 5 P2 Objectives*

- Prevent Pollution and Promote Environmental Stewardship by Government and the Public
  - Through 2008 , reduce pollution and improve environmental stewardship practices of all levels of government. Demonstrate how government agencies can serve as stewards of the environment and assist them in meeting their responsibilities under NEPA. Raise the public's awareness of actions it can take to prevent pollution

## *Targets for Objective*



- By 2006 reduce the Toxic Release Inventory (TRI)-reported toxic chemical releases at federal facilities by 40 percent.



## *Targets for Objective*

A decorative graphic consisting of a horizontal bar with a color gradient from dark blue on the left to bright yellow on the right. To the right of the bar is a large, stylized arrow pointing to the right, filled with a brown-to-orange gradient.

- By 2008, EPA will go beyond compliance with executive orders to “green” federal government operations in its purchases of “green” products and services.

## *Targets for Objective*

- By 2008, all federal agencies will have defined Environmentally Preferable Purchasing (EPP) programs and policies in place and will be expanding their purchases of available “Green” products and services,

## *Targets for Objective*

- Through 2008, 70 percent of significant impacts identified by EPA during the NEPA review of all major proposed federal actions are mitigated.
- Through 2008, 90 percent of EPA projects subject to NEPA Environmental Assessment or Environmental Impact Statement requirements result in a finding of no significant environmental impact.

## *Goal 5 P2 Objectives*



- Prevent Pollution and Promote Environmental Stewardship by Business
  - Through 2008, reduce pollution and improve environmental stewardship practices in business operations by adopting more efficient, sustainable, and protective policies, practices, materials, and technologies.

## *Targets for Objective*



- By 2008, reduce by 40 percent TRI chemical releases to the environment from the business sector per unit of production (“Clean Index”), and reduce by 20 percent TRI chemicals in production-related wastes generated by the business sector per unit of production (“Green Index”).

# *Targets for Objective*



- By 2008, reduce waste minimization priority list chemicals in hazardous waste streams reported by business to TRI by 50%.

## *Targets for Objective*



- By 2008, reduce pollution by 76 **billion** pounds, conserve 360 **billion** BTUs of energy and 2.7 **billion** gallons of water, and save \$400 million.

## *Targets for Objective*



- By 2008, reduce 165 thousand metric tons of carbon dioxide (CO<sub>2</sub>) emissions through the Green Chemistry Challenge Awards.



# *Goal 5 Innovation Objective*



- Business and Community Innovation
  - Through 2008, achieve measurably improved environmental performance through sector-based approaches, performance-based programs, and assistance to small business

## *Targets for Objective*

- By 2008, Performance Track members collectively will achieve an annual reduction of: 1.5 billion gallons in water use; 3,300,000 MMBTUs in energy use; 25,000 tons in material use; 450,000 tons of solid waste; 10,000 tons of air releases; and 19,000 tons in water discharges.

## *Targets for Objective*

- Through 2008, the Sector Strategies Program will work with participating business and service sectors to achieve aggregate reductions in environmental impacts of 15 percent in water use, energy use, waste generation or disposal, air releases, or water discharges.

# *Goal 5 Innovation Objective*



- Environmental Policy Innovation
  - Through 2008, achieve measurably improved environmental and economic outcomes by testing, evaluating, and applying alternative approaches to environmental protection in states, companies and communities. This work will be targeted at improving the cost effectiveness and efficiency for regulatory agencies as well as regulated entities.

# *Targets for Objective*



- By 2008, facilities that partner to demonstrate alternative regulatory or technological approaches will collectively achieve an environmental improvement of 10 percent in water use, energy use, waste generation or disposal, air releases, or water discharges or an increase of 10 percent in cost effectiveness or efficiency while achieving equal or improved environmental results

# *Targets for Objective*

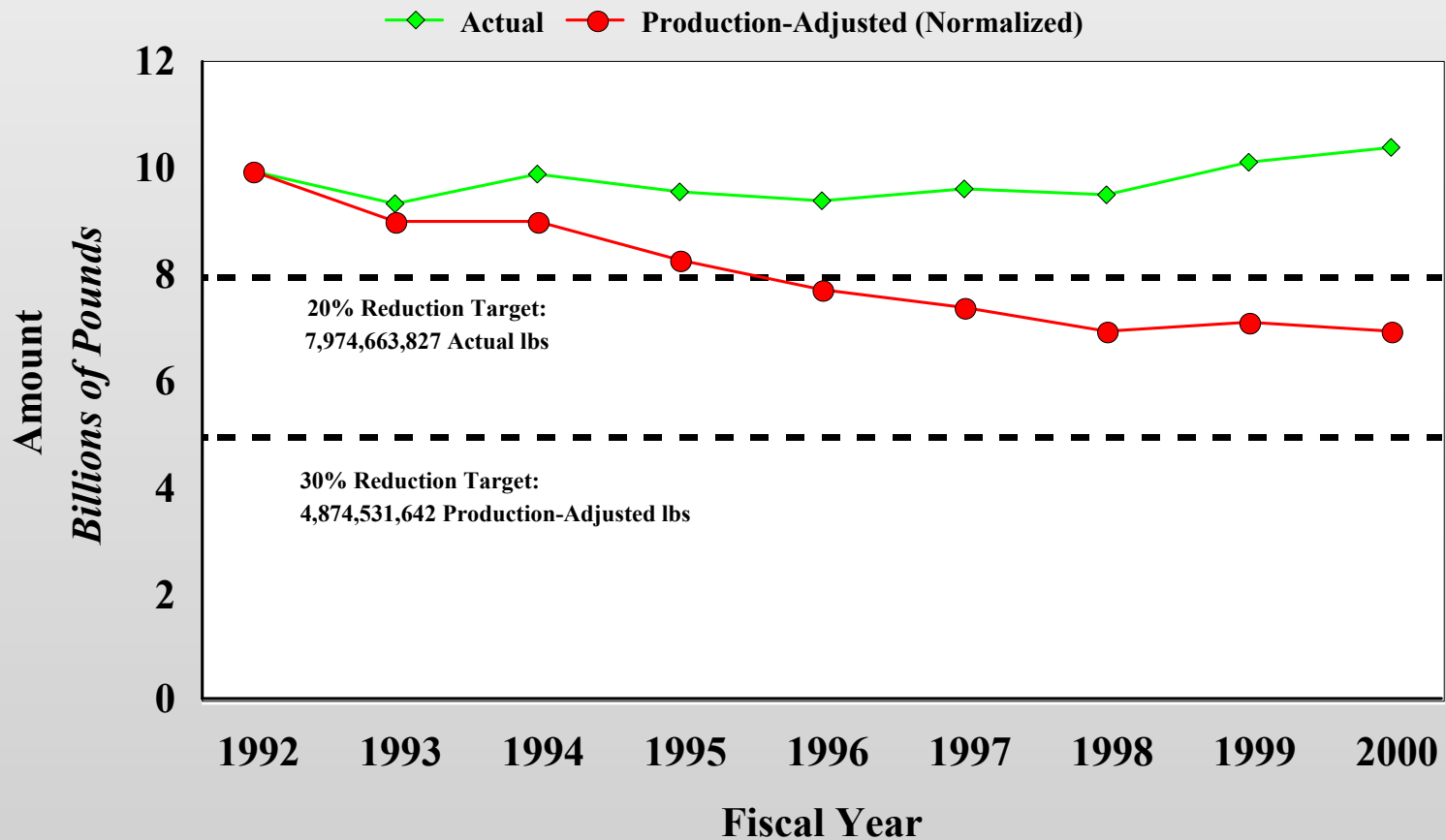
- By 2008, state projects conducted under the State Innovation Grant Program, Environmental Results Program, and the Joint EPA/State Agreement to Pursue Regulatory Innovation will collectively achieve an environmental improvement of 15 percent in water and energy use, waste generation or disposal, releases of contaminants into the air or water, or habitat quality, or an increase of 15 percent in cost effectiveness or efficiency while achieving equal or improved environmental results

## *P2 Measurement in EPA's Strategic Plans*

- May 1994 Strategy - TRI Link
- 1997 Strategic Plan - 25% Reduction Goal
- 2000 Strategic Plan - 30% Production  
Adjusted Goal
- 2003 Strategic Plan - 20/40% Reduction  
based on unit of  
production

# TRI Trends

## Toxics Release Inventory (TRI) Non-Recycled Waste Trends FY 1992-2000





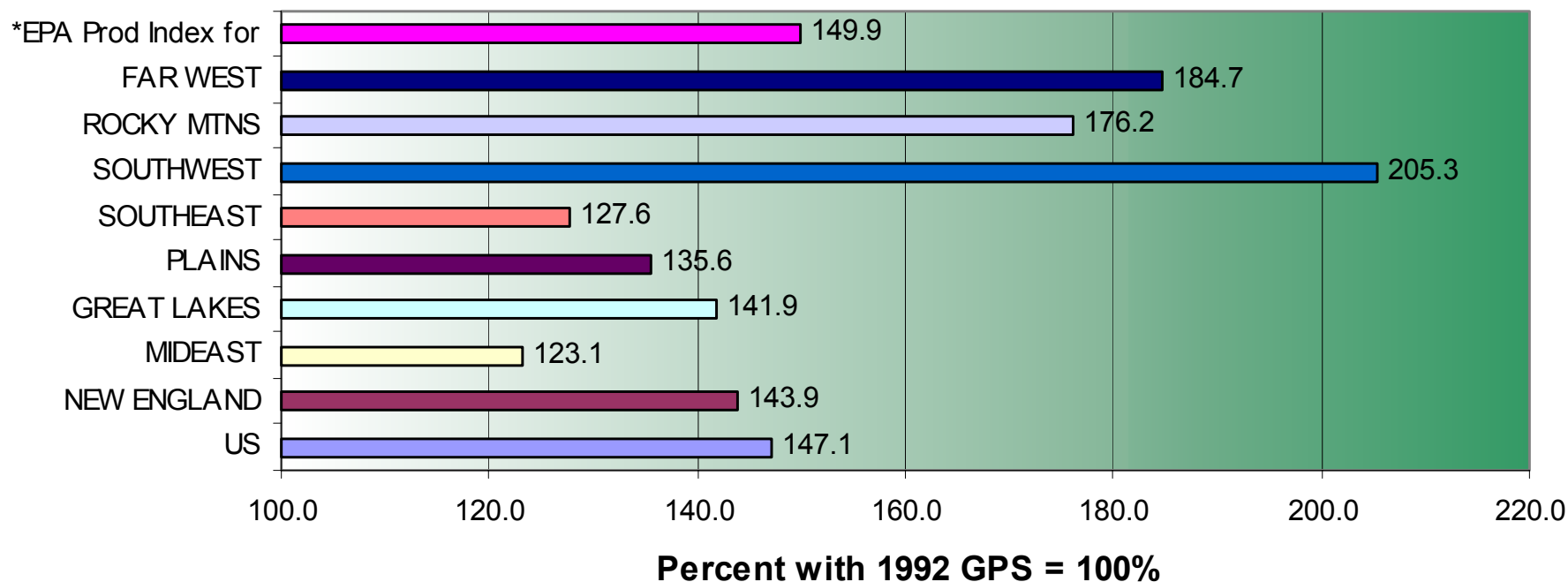
# *TRI and P2 Issues*



- Data Problems
- P2 Efforts TRI doesn't address
- Programmatic Limitations

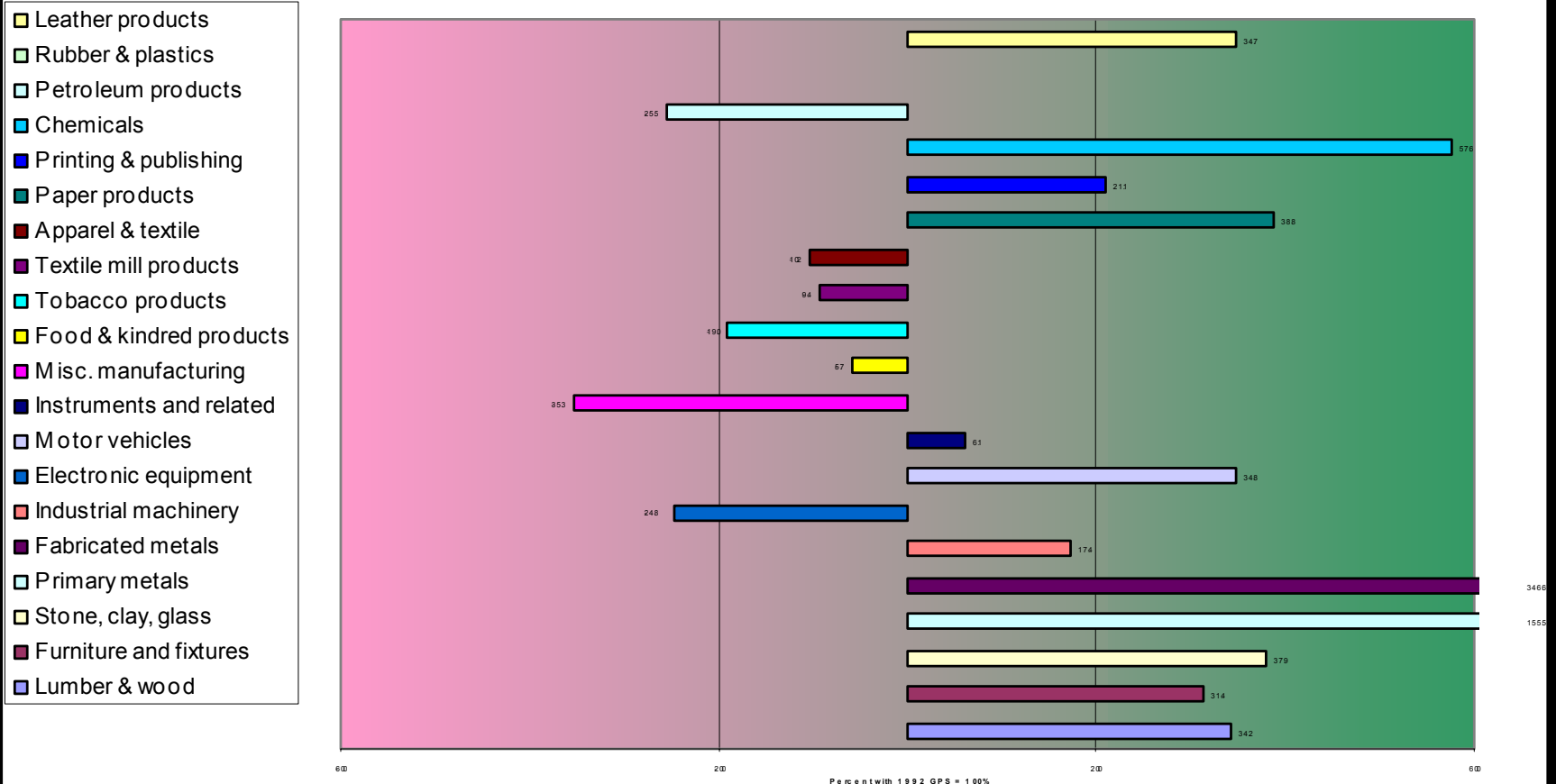
# *Regional Increase in Manufacturing Product Index*

**Regional Increases In Product Index Based on Real GSP, 1992 to 2000**



# Sector Production Changes

Manufacturing Changes In Product Index Based on Real GSP, 1992 to 2000



## *Targets for Objective*



- By 2008, reduce by 40 percent TRI chemical releases to the environment from the business sector per unit of production (“Clean Index”), and reduce by 20 percent TRI chemicals in production-related wastes generated by the business sector per unit of production (“Green Index”).

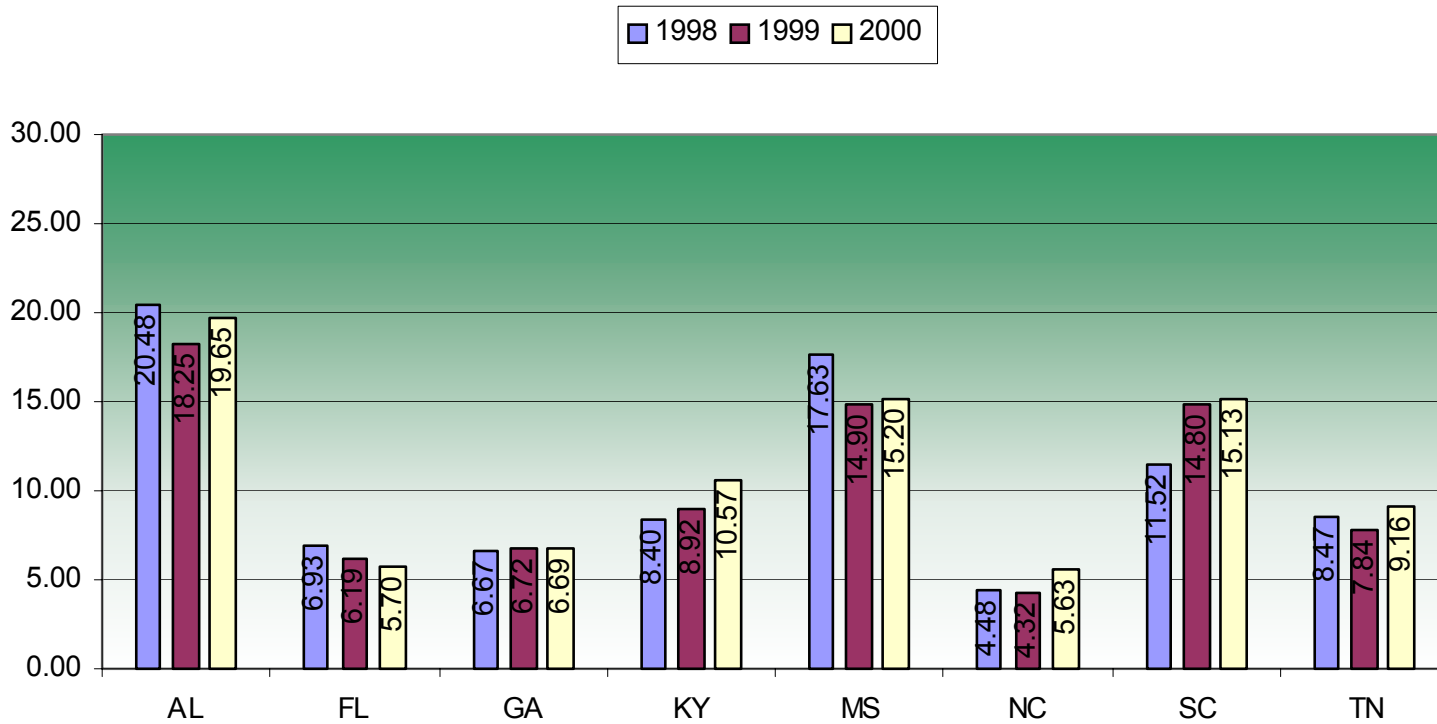
## *Green Index*



- TRI Total Waste Managed (less recycled)
- Measured in million pounds
- Divided by:
- Gross Manufacturing Product for the Region/State/Sector as appropriate
- In Billion of Dollars

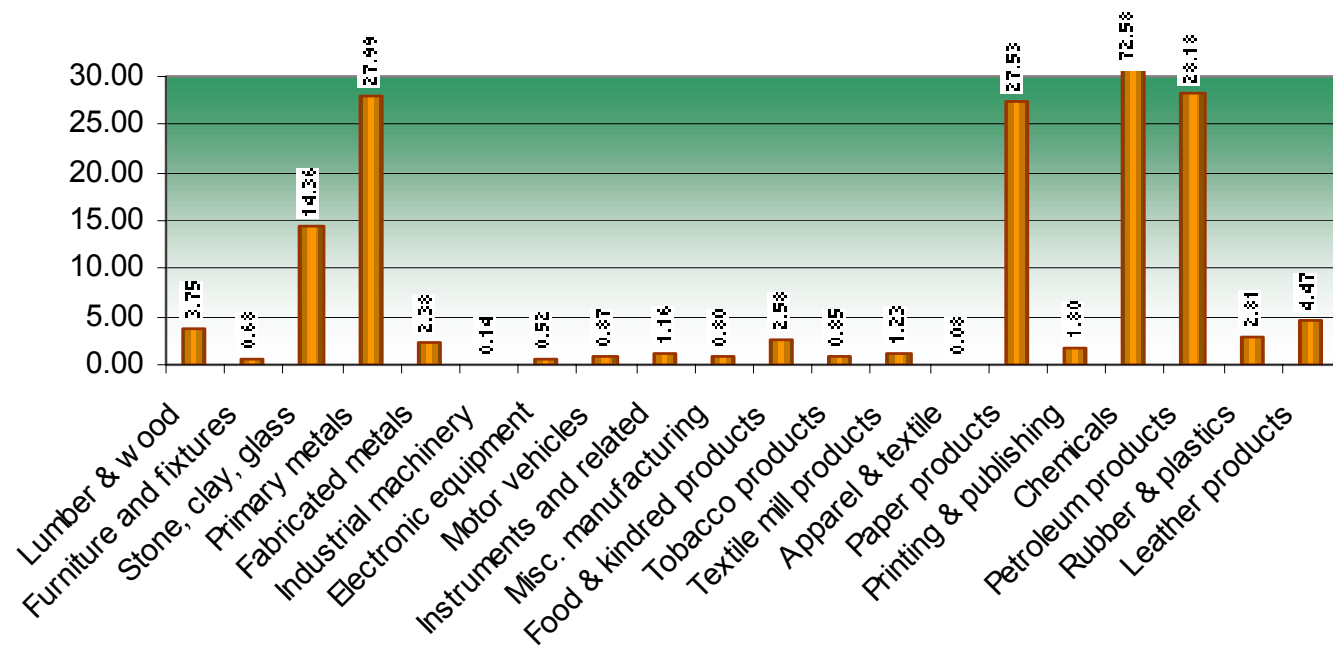
# State Green Index Trend

State Comparison of Green Indexes



# *Green Indexes for Sectors.*

Green Indexes for National Industrial Sectors for 2000



# *Total Waste Managed*



- Released
- Treated
- Energy Recovery
- Recycled
  - On Site
  - Off Site
- Reduced



## *Clean Index*



- TRI Releases in Million pounds
- Divided by
- Gross Product of the Region/State/Sector in Billion Dollars

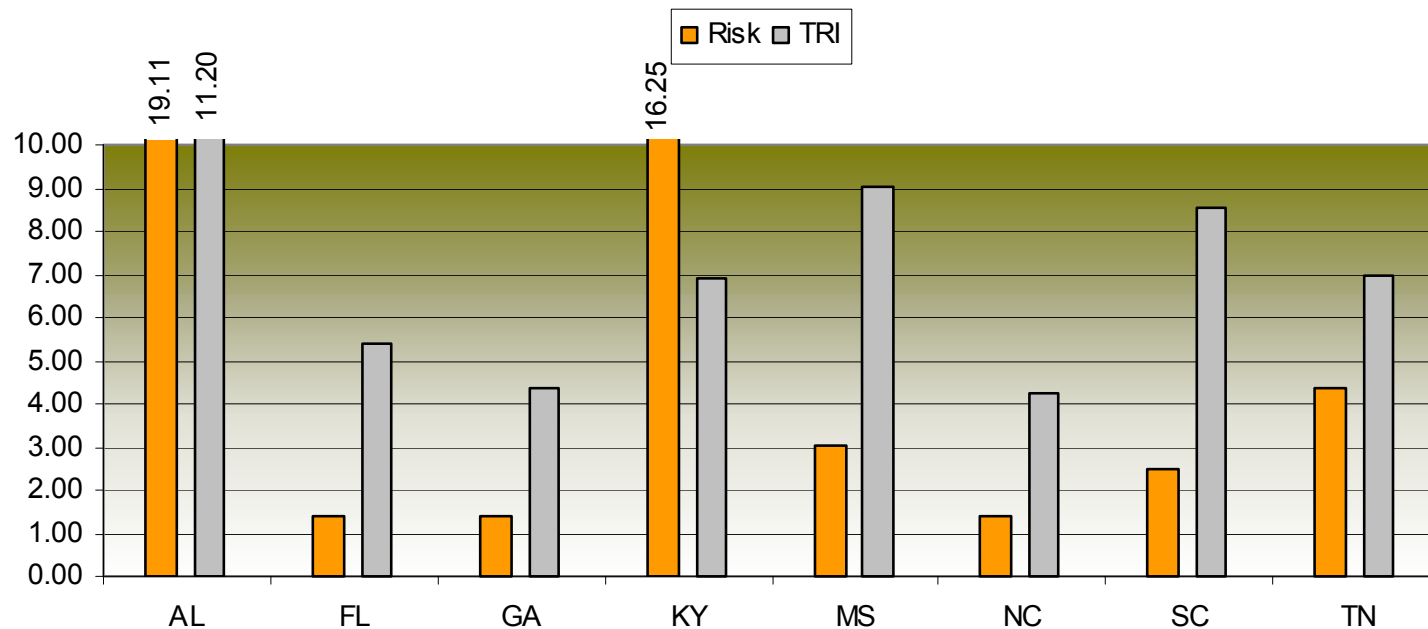
## *Clean Risk Index*



- Relative Risk Value in Ten Thousands
- Divided by:
- Gross Manufacturing Product in Billion dollars

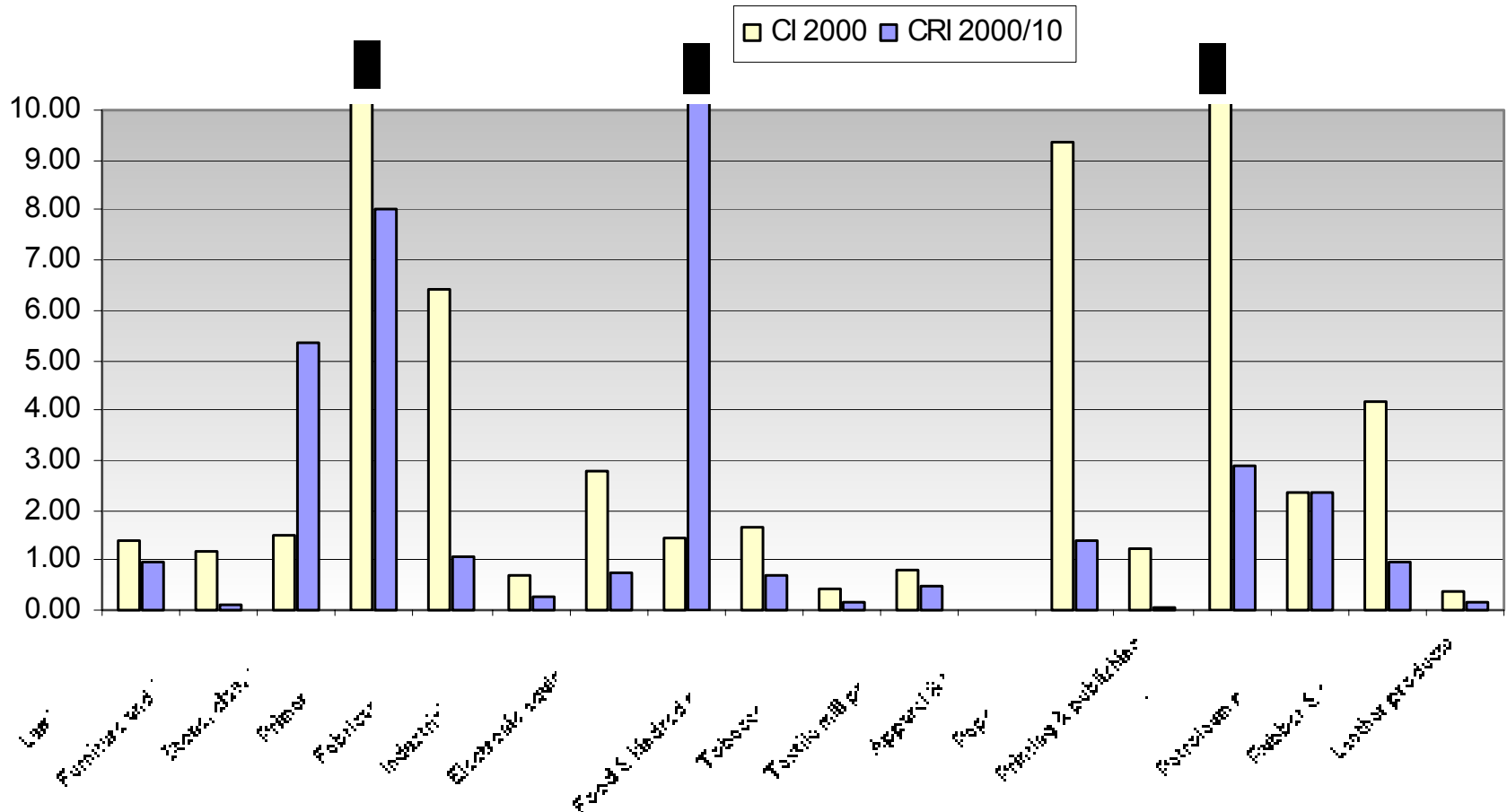
# *State Comparison of Clean and Risk Indexes.*

State Comparison of Clean Index Vs. Clean Risk Index for 2000



# Sector Comparison of Clean and Risk Indexes

Clean Vs. Clean Risk Indexes for Region 4 Industrial Sectors In 2000



# *Conclusions*



- Green Index
  - Joining two significant databases
  - Value created for waste generated
  - Business efficiency model
  - Measurement tool on progress in prevention
- Clean and Clean Risk Indexes
  - Targeting
  - Risk Reduction benefits
  - Business Risk Model

## *Additional Information*



- Article Location  
<http://wrrc.p2pays.org/ref/26/25654.pdf>
- TRI [www.epa.gov/triexplorer](http://www.epa.gov/triexplorer)
- Economic [www.bea.gov/bea/regional/gsp/](http://www.bea.gov/bea/regional/gsp/)

## *Additional Information*



- Federal Env Exe. [Www.ofee.gov](http://www.ofee.gov)
- EPA Strategy [www.epa.gov/ocfo](http://www.epa.gov/ocfo)
- EPP [www.epa.gov/opptintr/epp](http://www.epa.gov/opptintr/epp)
- WRRC <http://wrrc.p2pays.org>

# *Questions???*



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